Claims

[c1]　1. A portable micro-control device for inserting a plurality of input/output slave devices, the micro-control device comprising:

viewer for displaying an output data;

an input device for receiving a work command signal;

a power supply for providing power to the micro-control device; and

a controller coupled to the viewer and the input device, wherein the controller at least comprises a plurality of input/output ports for connecting with the input/output slave devices,

wherein the viewer in the micro-control device displays the stored data and related data inside the input/output slave devices once the input/output slave devices are inserted into the micro-control device, and operates on the data stored inside the input/output slave devices according to a work command signal.

[c2]　2. The micro-control device of claim 1, wherein the input/output ports are universal serial bus (USB) ports.

[c3]　3. The micro-control device of claim 1, wherein the viewer comprises a liquid crystal display.

[c4]   4. The micro-control device of claim 1, wherein the input device has a set of buttons including an "up" button, a "down" button, a "right" button, a "left" button and at least an "enter" button.

[c5]   5. The micro-control device of claim 1, wherein after a first device has been inserted into one of the input/output ports, the controller determines if the first device matches the input/output standard, then determines if the first device receives any power, then sets the initial-ization values of the first device, then assigns memory address to the first device, then set the state configura-tion of the first device and finally determines if the first device is successfully connected.

[c6]   6. The micro-control device of claim 1, wherein the standard operation includes copying, transferring, back-ing up, deleting, editing or formatting the data stored inside the input/output slave devices.

[c7]   7. A controller for a portable micro-control device, com-prising:
power module for providing electrical power;
a plurality of input/output ports for connecting with a plurality of input/output slave devices;
a mini-root hub coupled to the input/output ports for

transmitting the data stored inside the input/output slave devices;

a local buffer module coupled to the mini-root hub for holding some of the data temporarily;

n output controller for driving a viewer;

an input controller for receiving a work command signal from an input device; and

a processor coupled to the output controller, the input controller and the local buffer module, wherein the processor performs an operation on the data stored inside the input/output slave devices according to the work command signal.

[c8]   8. The controller of claim 7, wherein the input/output ports are universal serial bus (USB) ports and the mini-root hub supports the universal serial bus.

[c9]   9. The controller of claim 8, wherein the mass data transmits in a bulk mode.

[c10]   10. The controller of claim 7, wherein the input/output ports include serial ATA ports.

[c11]   11. The controller of claim 7, wherein the local buffer module is connected to an external memory device.